

Sequence Listing

<110>Siler-Khodr, Theresa M.

<120>Non-Mammalian GnRH Analogs and Uses Thereof in Regulation of Fertility and Pregnancy

<130>P7345.2 (CIP) 6

<150>US 10/639,405

<151> 2003-08-12

<160>16

<210>1

<211>30

<212>DNA

<213>Gallus gallus (Chicken II GnRH)

<400>1

cagcactggt cccatggctg gtaccctgga 30

<210>2

<211>10

<212>Prt

<213>Unknown (Chicken II GnRH Analog)

<220>

<221>mat_peptide

<222>Within brain mRNA 121-150, within brain gene 2174-2203.

<223>MOD_RES substitution of Gly residue at 10 by aza-Gly-NH₂, ethylamide or other Gly amide. Xaa represents D-Arg, D-Leu, D-tBu-Ser, or D-Trp. MOD_RES Glu at position 1 is pyroglutamic acid.

<400>2

Glu His Trp Ser His Xaa Trp Tyr Pro Gly
5 10

<210>3

<211>30

<212>DNA

<213>Salmo salar (Salmon GnRH)

<400>3

cagcactggt cttatggctg gctgcctgga 30

<210>4

<211>10

<212>Prt

<213>Unknown (Salmon GnRH Analog)

<220>

<221>mat_peptide

<222>unknown

<223>MOD_RES substitution of Gly residue at 10 with aza-Gly-NH₂, ethylamide or other Gly amide. Xaa represents D-Arg.

MOD_RES Glu at position 1 is pyroglutamic acid.

<400>4

Glu His Trp Ser Tyr Xaa Trp Leu Pro Gly
 5 10

<210>5

<211>10

<212>Prt

<213>Homo sapiens (Mammalian GnRH)

<220>

<221>mat_peptide

<222>unknown

<223>MOD_RES Glu at position 1 is pyroglutamic acid.

<400>5

Glu His Trp Ser Tyr Gly Leu Arg Pro Gly
 5 10

<210>6

<211>10

<212>Prt

<213>Gallus gallus (Chicken II GnRH)

<220>

<221>mat_peptide

<222>Within brain MRNA 121-150, within brain gene 2174-2203

<223>MOD_RES Glu at position 1 is pyroglutamic acid.

<400>6

Glu His Trp Ser His Gly Trp Tyr Pro Gly
 5 10

<210>7

<211>10

<212>Prt

<213>Salmo salar (Salmon GnRH)

<220>

<221>mat_peptide

<222>unknown

<223>MOD_RES Glu at position 1 is pyroglutamic acid

<400>7

Glu His Trp Ser Tyr Gly Trp Leu Pro Gly
 5 10

<210>8

<211>30

<212>RNA

<213>Gallus gallus (Chicken II GnRH)

<400>8

gucgugacca ggguaccgac caugggaccu 30

<210>9
 <211>30
 <212>RNA
 <213>Salmo salar (Salmon GnRH)

<400>9
 gucgugacca gaauaccgac cgacggaccu 30

<210>10
 <211>9
 <212>Prt
 <213>Buserelin

<220>
 <221>mat_peptide
 <222>unknown
 <223>MOD_RES Glu at position 1 is pyroglutamic acid. XAA represents D-Ser (t-Bu). MOD_RES PRO residue at 9 bound to ethylamide.

<400>10
 GLU HIS TRP SER TYR XAA LEU ARG PRO
 5

<210>11
 <211>9
 <212>Prt
 <213>Leuprolide

<220>
 <221>mat_peptide
 <222>unknown
 <223>MOD_RES Glu at position 1 is pyroglutamic acid. XAA represents D-Leu. MOD_RES PRO residue at 9 bound to ethylamide.

<400>11
 GLU HIS TRP SER TYR XAA LEU ARG PRO
 5

<210>12
 <211>10
 <212>Prt
 <213>Antide

<220>
 <221>mat_peptide
 <222>1,2,3,5,6,8,10
 <223>XAA 1 is Ac-D-NaI, XAA2 is D-Cpa, XAA3 is D-Pal, XAA5 is NicLys, XAA6 is D-NicLys, XAA8 is ILys, XAA10 is D-Ala.

<400>12
 XAA XAA XAA SER XAA XAA LEU XAA PRO XAA
 5 10

<210>13
 <211>10
 <212>Prt
 <213>Gallus gallus (Chicken I GnRH)

<220>
<221>mat_peptide
<222>unknown
<223>MOD_RES Glu at position 1 is pyroglutamic acid.

<400>13
GLU HIS TRP SER TYR GLY LEU GLN PRO GLY
 5 10

<210>14
<211>10
<212>Prt
<213>Lampetra genus (Lamprey GnRH)

<220>
<221>mat_peptide
<222>unknown
<223>MOD_RES Glu at position 1 is pyroglutamic acid.

<400>14
GLU HIS TYR SER LEU GLU TRP LYS PRO GLY
 5 10

<210>15
<211>30
<212>DNA
<213>Clupea harengus (Herring GnRH)

<400>15
cagcactggg cttatggctg gctgcctgga 30

<210>16
<211>10
<212>PRT
<213>Clupea harengus (Herring GnRH Analog)

<220>
<221>mat_peptide
<222>unknown
<223>MOD_RES substitution of Gly residue at 10 with aza-Gly-NH₂, ethylamide or other Gly amide. Xaa represents D-Arg. MOD_RES Glu at position 1 is pyroglutamic acid.

<400>16
Glu His Trp Ser Tyr Xaa Leu Ser Pro Gly
 5 10